NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER



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25X1

basic imagery interpretation report

Duanzeguo (Tuan-tse-kou) Radar Production Plant

25X1

COMMO/ELEC/RADAR R&D FACILITIES

CHINA

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RCA-20/2521/80 May 1980



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INSTALLATION OR ACTIVITY IAME			
Duanzeguo (Tuan-tse kou) Radar Production Plant			
UTM COORDINATES NA	G OGRAPHIC COORDINATES 2 '-48-41N 107-04-09E		
NA	2 '-48-41N 107-04-09E		
MAP REFERENCE			
	raph c Command, Series 1505, 1	st ed, Sheet NG 48-4, scale 1,250,000	
MAP REFERENCE US Army Topog	raph c Command, Series 1505, 1	it ed, Sheet NG 48-4, scale 1,250,000	

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ABSTRACT

Imag ary-derived analysis of the Duanzeguo (Tuan-tec-kou) Radar Production Plant indicates that series pre luction of the GIN SLING radar has started at the Duanzeguo plant. One probable GIN SLING target tracking and missile guidance radar has been seen at Duanzeguo since August 1977. One GIN SLING as of five tracking/guidance radar bases were present:

| This was the largest concentration of tracking/guidance radar bases seen at Duanzeguo. This report describes activity observed at the Du nzeguo plant | It updates NPIC report and si bstantially satisfies the basic reporting requirement for the target.

2. A location map, five annotated photographs, and seven tables are included in this report.

INTRODUCTION

3. Duan eguo Radar Production Facility is approximately 12.0 nautical miles (nm) northeast of the city of Zunyi (Tsun-i, 11.0 nm southwest of the city of Suiyang (Sui-yang), and 1.2 nm northwest of the village of Duanzeguo in the Kunming (Kun-ming) Military Region (Figure 1). The plant is involved in the production of the GIN SLING t rget tracking and missile guidance radar associated with the Chinese CSA-1 SAM system. This report updates a previous NPIC report.¹

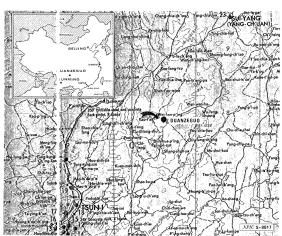


FIGURE 1. LOCATION OF DUANZEGUO RADAR PRODUCTION PLANT, CHINA

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Sanitized Copy Approved for Release 2010/05/18 : CIA-RDP80T00913A000300480001-4 Top Secret RUFF 25X1 BASIC DESCRIPTION 5. Duanze uo Radar Production Plant is wail secured and roa i served. The production facility consists of two m inufacturing areas linked by tunnels, a radar test/caibration support are. a housing/support area area (Figure 2). An electri: power substation, in the northern part of mani facturing area 2, and a regional electric power substation, ton shown on graphic), approximately 1. - mm northwest of the radar test/caibration area, pi vvide electrical power to the facility. been completed and provides a link between manufacturing area 1 and manufacturing area 2. Very little activity has been observed in the vicinity of the tunnel adits. 25X1 And Table I), at the north end of the plant area, contains two large monitor-rooted fabrication buildings, two fabrication buildings, two fabrication buildings, two fabrication/assembly buildings, one gineering/assembly buildings, one laboratory buildings, one fabrication/assembly buildings, one fabrication support buildings, and liquid waste processing area, and various other small support buildings. One probable fabrication/assembly buildings was in the midstage of construction, and footings were seen for two additional buildings. The total floorspace in manufacturing area 1 is 22.241 square meters. No radars or pieces of electronics equipment have been seen in this area to date. 25X1 6. Duanze uo Radar Production Plant was in a late stage of construction when it was first observed in March 197. The majority of the plant facilities appeared to be externally complete in March 1974. The wover, minor construction and unneling activity were stil in progress in March 1974, and minor building cot struction continued through adminor building cot struction continued through August 1979. All the tinnel construction has now 25X1 25X1

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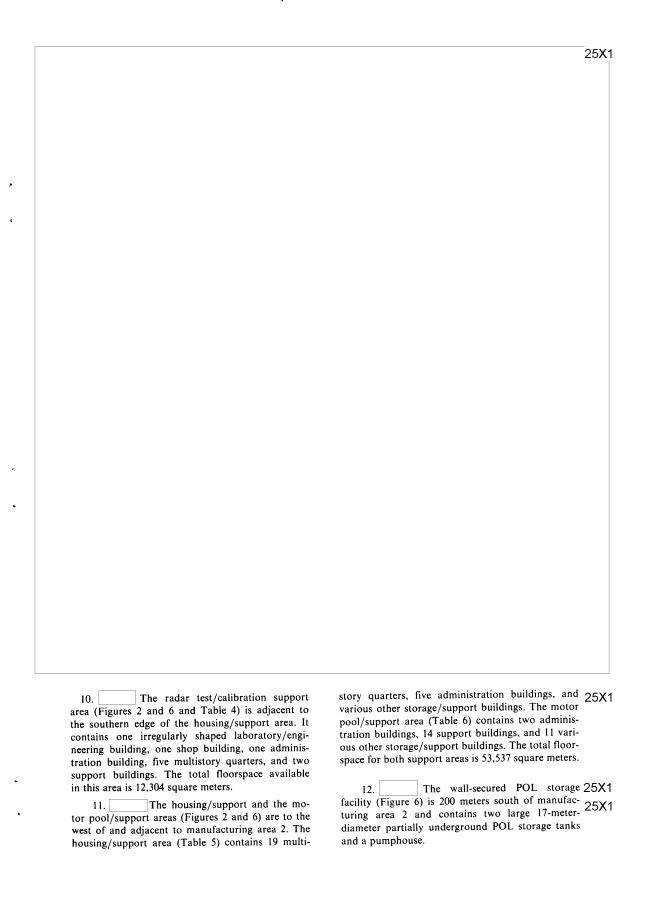
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Membraneng accity graph 2 side of the color specific blanch of the color s		Sanitized Copy Approved for Release 2010/05/18 : CIA-RDP80T00913A000300480001-4 Top Secret RUFF	
2881 2881	Manufacturing area 2 (Figures 2 and 4 and Table 2) is 400 meters southeast of manufacturing area in and consists of one monitor-coded fabrication building, two saxembly buildings, three monitor-coded shorpfartness on buildings (two are monitor-coded shorpfartness) to buildings, two are monitor-coded shorpfartness on buildings, (two are monitor-coded shorpfartness) to buildings, (two are monitor-coded shorpfartness).		25X1
	interconnected), two subassembly buildings, four production support buildings, a liquid waste pro-		25X1
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9. The radar test/calibration area (Figure 2 and 3 and Table 3) is 0.6 nm southwest of the housing/support area. The test/calibration area consists of one radar control building, three radar calibration buildings, one small shop building, one	probable radar component building, three support juildings, and two housing/support buildings. The cotal floorapsec in this area is 244 square meters. This is the only area where GIN SLING radars have been observed.			
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Production Activity 13. One probable GIN SLING without the ECCM target tracking and missile guidance radar was observed at the radar test/calibration area for the first time in August 1977. Since that date, a GIN SLING radar has been seen within this same area on several occasions. In addition to a GIN SLING, five tracking/guidance radar bases were observed in August 1979. This increase in the number of radar bases seen at the test/calibration area indicates that the GIN SLING radar may now be in series production at this plant. The only plants in China that have been involved in SAM tracking and guidance radar production are Xian (Hsi-an) Optical Instrument Plant Hsi-pei the adjacent Xian Radar Plant 786 , and the Xian Radar Assembly and Test Area Only one FAN SONG has been seen at the Xian Radar Assembly and Test Area on any given imagery. However, five tracking/guidance radar bases were at the Xian Optical Instruments Plant, just east of and adjacent to the Xian Radar Plant 786. The five tracking/guidance radar bases seen at Xian optical plant This was the largest concentration of SAM-related equipment seen at the Xian optical plant. The five tracking/guidance radar bases seen at the Duanzeguo radar test/calibration area in August 1979 . In addition to the tracking/guidance

electronics van trucks have been observed at the Duanzeguo plant.	25 X 1
Imagery Analyst's Comments	
15. Ten to 12 GIN SLING radars could probably be produced per year at the Duanzeguo Radar Production Plant. The combined GIN SLING radar production efforts of the Duanzeguo plant and the Xian plants are probably more than sufficient to meet both current and future production needs for the GIN SLING tracking/guidance radar.	25X1
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Table 7.
Tracking/Guidance Radars and Associated Equipment
Observed at Duanzeguo Radar Production Plant

bases seen at Duanzeguo, as many as ten tracking/guidance antenna trailers and three cab-over-engine

Radar	Radar Antenna Base	Radar Antenna Trailer	Cab-Over-Engine Van Truck	Remarks	
1 prob GIN SLING	0	0	0	Without ECCM dish	
l prob GIN SLING	0	0	0	Without ECCM dish	
I GIN SLING	0	0	0	William Eccivi disii	
l prob GIN SLING	0	0	0	Without ECCM dish	
0	0	4	1	Test area not covered; equipment seen in motor pool area	
0	0	6	0	Test area not covered; equipment seen in motor pool area	
1 GIN SLING	2	3	3	Equipment seen in motor pool area	
0	0	3	3	Test area not covered; equipment seen in motor pool area	
1 GIN SLING	3	6	3	Equipment seen in motor pool & test/calibration areas	
I GIN SLING	5	10	3	I prob FIRE CAN without dish; equipment seen in motor pool, test/	

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REFERENCES

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MAPS OR CHARTS	
US Army Topographic Command. Series 1505, 1st ed, Sheet NG 48-4, scale 1:250,000 (SECRET)	25X 25X
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*Extracted information is classified TOP SECRET R.	237
REQUIREMENT	
COMIREX U01 Project 200002 DU	
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